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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/015,640	12/10/2001	Theodore J. Letavic	· US010631	7554	
759	90 02/11/2003				
STEVEN R. B	IREN	EXAMINER			
	ics North America Cor	NGO, NGAN V			
580 White Plains Road Tarrytown, NY 10591			ART UNIT	PAPER NUMBER	
1 22. 3 10 11.13 11. 2	(*)	2814			
			DATE MAILED: 02/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Applicatio	nΝ.	cant(s)					
	Office Action Occurrence	10/015,64)	LETAVIC ET AL.					
	· Office Action Summary	Examiner		Art Unit					
اھ		Ngan Ngo		2814					
Period f	The MAILING DATE of this communication reply	on appears on the	cover	she t with the correspondenc addr	ess				
THE - External control	MORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI ensions of time may be available under the provisions of 37 Control of 18 Communication of 18 Communi	ION. CFR 1.136(a). In no ever ion. , a reply within the statu period will apply and will statute, cause the appli	nt, howev tory minin expire SI cation to I	er, may a reply be timely filed num of thirty (30) days will be considered timely. X (6) MONTHS from the mailing date of this common the common com	nunication.				
1)🛛	Responsive to communication(s) filed or	n <u>02 December 2</u>	<u>002</u> .						
2a)⊠	This action is FINAL. 2b)	This action is i	non-fin	al.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
·	ion of Claims								
4)⊠	Claim(s) 1-13 is/are pending in the application.								
£. []	4a) Of the above claim(s) is/are withdrawn from consideration.								
<u> </u>	5) Claim(s) is/are allowed.								
_) Claim(s) <u>1-13</u> is/are rejected.								
7)∐	Claim(s) is/are objected to.	and/an alastian na		anni					
_	Claim(s) are subject to restriction a ion Papers	and/or election re	quiren	ient.					
9)	The specification is objected to by the Exa	aminer.							
10)	The drawing(s) filed on is/are: a)	accepted or b)	objecte	d to by the Examiner.					
	Applicant may not request that any objection	n to the drawing(s)	be held	in abeyance. See 37 CFR 1.85(a).					
11)	The proposed drawing correction filed on _	is: a)∏ ap	proved	b) disapproved by the Examiner.					
	If approved, corrected drawings are required	• •	ce actio	on.					
12)	The oath or declaration is objected to by the	ne Examiner.							
Priority	under 35 U.S.C. §§ 119 and 120								
13)	Acknowledgment is made of a claim for fo	oreign priority und	ler 35	U.S.C. § 119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority docu	ments have been	receiv	ved in Application No					
* 9	3. Copies of the certified copies of the application from the Internation See the attached detailed Office action for	al Bureau (PCT F	Rule 17	7.2(a)).	age				
	Acknowledgment is made of a claim for do				nnlication)				
_ a	a) 🔲 The translation of the foreign languag	je provisional app	olicatio	n has been received.	ppilodilony.				
ااردا Attachmer	Acknowledgment is made of a claim for do	mesuc prionty un	uei 33	0.5.0. 99 120 and/or 121.					
1)	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94	18)	5) 🔲 1	nterview Summary (PTO-413) Paper No(s). Notice of Informal Patent Application (PTO-1					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449) Paper N	io(s)	6) 📙 (Other: .					

Application/Control Number: 10/015,640

Art Unit: 2814

The amendment filed December 2, 2002 has been entered and made of record as paper no. 7.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Simpson et al (cited by Applicants).

Simpson discloses in figures 1 and 2 a high frequency semiconductor device having a doping profile comprising a buried oxide (38A) and a silicon layer (32) in which an origin of a doping profile of the silicon is within a body region of the device. Simpson discloses on line 32 of column 4 that "the minimum charge doping Qmin ranging from zero to a relative low value". It would have been obvious that the doping profile is shifted to the left side of the oxide layer (38A). In re claim 8, Simpson discloses on line 37 of column 4 that the point x0 may be located about 2-4 microns from the edge 30A of the body region which is about the same distance between point x0 to the edge 38C of the top oxide 38.

Claims 1-13 stand alternatively rejected under 35 U.S.C. 103(a) as being unpatentable over Merchant et al (5,300,448), cited by Applicants.

Merchant et al also discloses a "shifted doping profile" in the silicon layer in which the dopant level is approximately zero. Note figures 3-4E of Merchant et al.

Application/Control Number: 10/015,640

Art Unit: 2814

Applicant's arguments filed December 2, 2002 have been fully considered but they are not persuasive.

The term "body region" is simply broad. Any region in a semiconductor layer can be defined as body region. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Further, note that the phases "shifted doping profile" and "an original of a doping profile" are simply broad. It is well known that any silicon layer before doping is in intrinsic (non-doped) state and therefore it has an original of a doping profile approximately zero.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final-action.

Application/Control Number: 10/015,640

Art Unit: 2814

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (703) 308-4938. The fax number for the Art unit is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Ngan Van Ngo Primary Examiner

Ngan Ngo

February 9, 2003